

Amendments to Claims:

Claims 1-17 are cancelled.

18. (Currently Amended) A composition having microbiocidal activity, which composition comprises water to which has been added a microbiocidally effective quantity of at least one 1,3-dibromo-5,5-dialkylhydantoin selected from the group consisting of:

- (a) 1,3-dibromo-5-isobutyl-5-methylhydantoin,
- (b) 1,3-dibromo-5-n-propyl-5-methylhydantoin,
- (c) 1,3-dibromo-5-ethyl-5-methylhydantoin, and
- (d) a mixture of two or more 1,3-dibromo-5,5-dialkylhydantoins in which one of the alkyl groups in the 5-position is a methyl group and in which the other alkyl group in the 5-position has in the range of 1 to 4 carbon atoms,
(i) the molar quantity of said at least one 1,3-dibromo-5,5-dialkylhydantoin added being less than the molar quantity of N,N'-bromochloro-5,5-dimethylhydantoin required to effect the same degree of microbiocidal activity in said water, (ii) the quantity of said at least one 1,3-dibromo-5,5-dialkylhydantoin added releasing an amount of "free chlorine" that is greater than the amount of "free chlorine" that would be released in said water by an equimolar quantity of N,N'-bromochloro-5,5-dimethylhydantoin, and (iii) the amount of "free chlorine" released by the quantity of said at least one 1,3-dibromo-5,5-dialkylhydantoin added being greater than the amount of "free chlorine" that could be predicted to be released by that quantity of said at least one 1,3-dibromo-5,5-dialkylhydantoin on the basis of the amount of "free chlorine" that would be released in said water by an equimolar quantity of N,N'-bromochloro-5,5-dimethylhydantoin.

19. (Original) A composition of Claim 18 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is 1,3-dibromo-5-isobutyl-5-methylhydantoin.

20. (Original) A composition of Claim 18 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is 1,3-dibromo-5-n-propyl-5-methylhydantoin.

21. (Original) A composition of Claim 18 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is 1,3-dibromo-5-ethyl-5-methylhydantoin.

22. (Original) A composition of Claim 18 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is a mixture of two or more of said 1,3-dibromo-5,5-dialkylhydantoins.

23. (Original) A composition of Claim 18 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is a mixture of 1,3-dibromo-5,5-dimethylhydantoin and 1,3-dibromo-5-ethyl-5-methylhydantoin.

24. (Original) A composition of Claim 18 wherein said water has a pH of at least about 8.0.

25. (Currently Amended) A composition having microbiocidal activity, which composition comprises water containing a microbiocidally effective amount of "free chlorine" provided in the water by at least one 1,3-dibromo-5,5-dialkylhydantoin selected from the group consisting of:

- (a) 1,3-dibromo-5-isobutyl-5-methylhydantoin,
- (b) 1,3-dibromo-5-n-propyl-5-methylhydantoin,
- (c) 1,3-dibromo-5-ethyl-5-methylhydantoin, and
- (d) a mixture of two or more 1,3-dibromo-5,5-dialkylhydantoins in which one of the alkyl groups in the 5-position is a methyl group and in which the other alkyl group in the 5-position has in the range of 1 to 4 carbon atoms,
 - (i) the molar quantity of said at least one 1,3-dibromo-5,5-dialkylhydantoin providing said amount of "free chlorine" in the water being less than the molar quantity of N,N'-bromochloro-5,5-dimethylhydantoin required to effect the same degree of microbiocidal activity in said water, (ii) the quantity of said at least one 1,3-dibromo-5,5-dialkylhydantoin providing said amount of "free chlorine" releasing an amount of "free chlorine" that is greater than the amount of "free chlorine" that would be released in said water by an equimolar quantity of N,N'-bromochloro-5,5-dimethylhydantoin, and (iii) the amount of "free chlorine" released by the quantity of said at least one 1,3-dibromo-5,5-dialkylhydantoin providing said amount of "free chlorine" being greater than the amount of "free chlorine" that could be predicted to be released by that quantity of said at least one 1,3-dibromo-5,5-dialkylhydantoin on the basis of the amount of "free chlorine" that would be released in said water by an equimolar quantity of N,N'-bromochloro-5,5-dimethylhydantoin.

26. (Original) A composition of Claim 25 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is 1,3-dibromo-5-isobutyl-5-methylhydantoin.

27. (Original) A composition of Claim 25 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is 1,3-dibromo-5-n-propyl-5-methylhydantoin.

28. (Original) A composition of Claim 25 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is 1,3-dibromo-5-ethyl-5-methylhydantoin.

29. (Original) A composition of Claim 25 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is a mixture of two or more of said 1,3-dibromo-5,5-dialkylhydantoins.

30. (Original) A composition of Claim 25 wherein said at least one 1,3-dibromo-5,5-dialkylhydantoin is a mixture of 1,3-dibromo-5,5-dimethylhydantoin and 1,3-dibromo-5-ethyl-5-methylhydantoin.

31. (Original) A composition of Claim 25 wherein said water has a pH of at least about 8.0.

Claims 32-45 are cancelled.